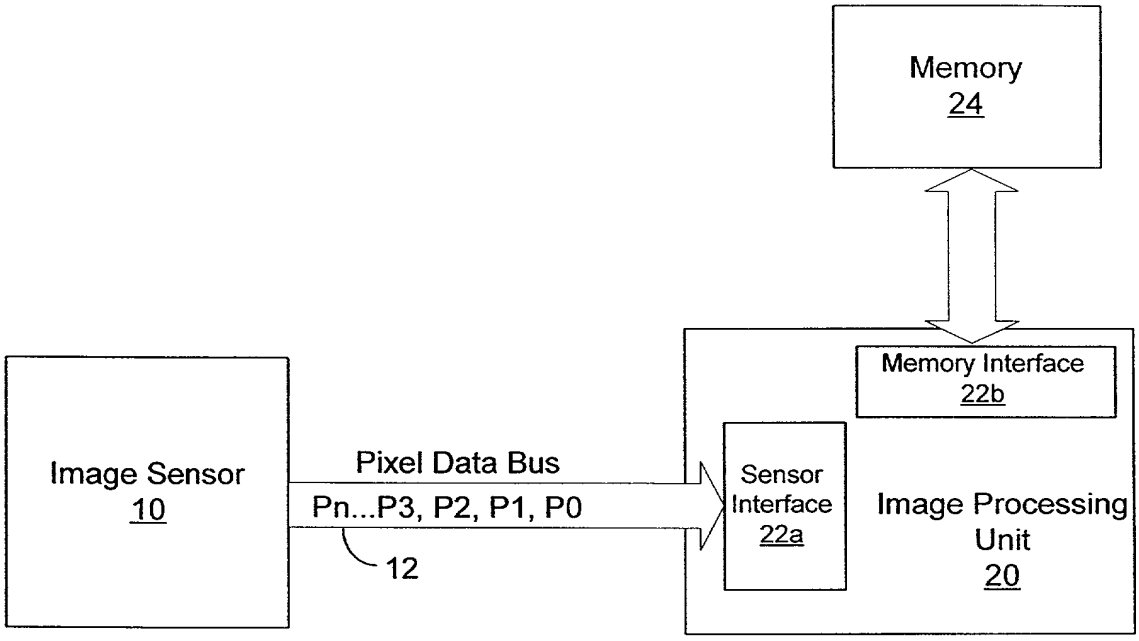

Figure 1 (Prior Art)

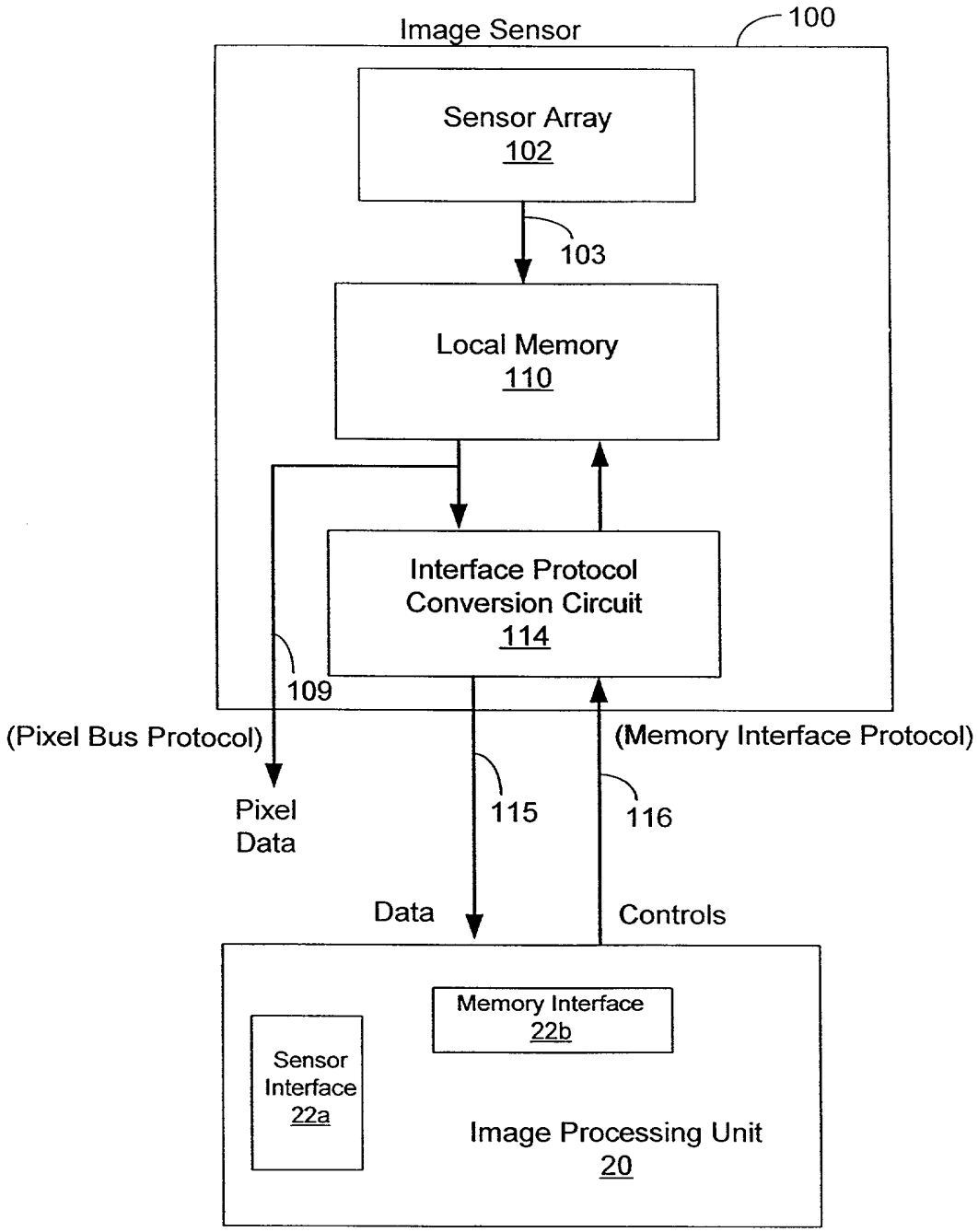
Image Sensor
100
Sensor Array
102
103
Local Memory
110
Interface Protocol
Conversion Circuit
114
109
(Pixel Bus Protocol)
(Memory Interface Protocol)
Pixel
Data
115
116
Data
Controls
Memory Interface
22b
Sensor
Interface
22a
Image Processing Unit
20

Figure 2

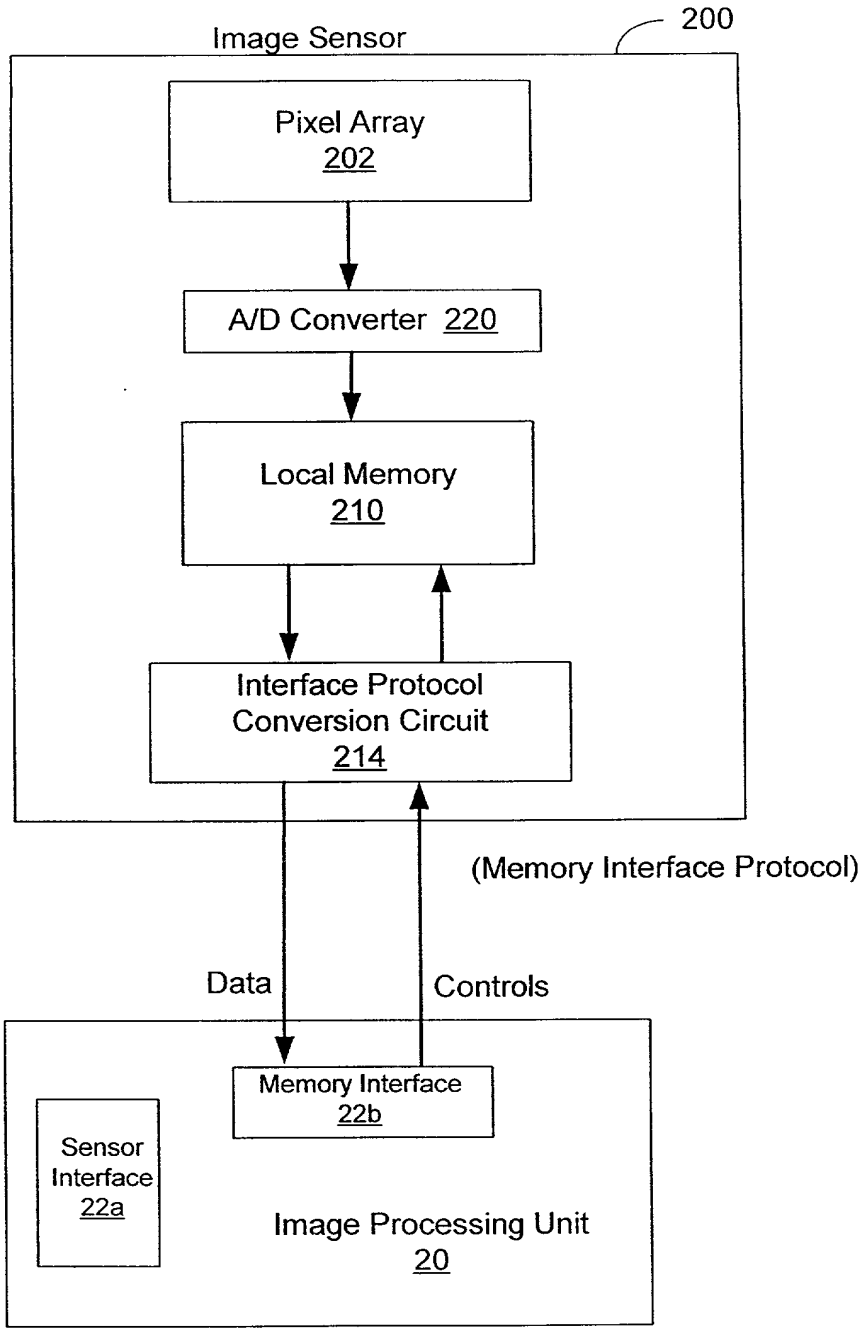
Image Sensor
200
Pixel Array
202
A/D Converter 220
Local Memory
210
Interface Protocol
Conversion Circuit
214
(Memory Interface Protocol)
Data
Controls
Memory Interface
22b
Sensor
Interface
22a
Image Processing Unit
20

Figure 3

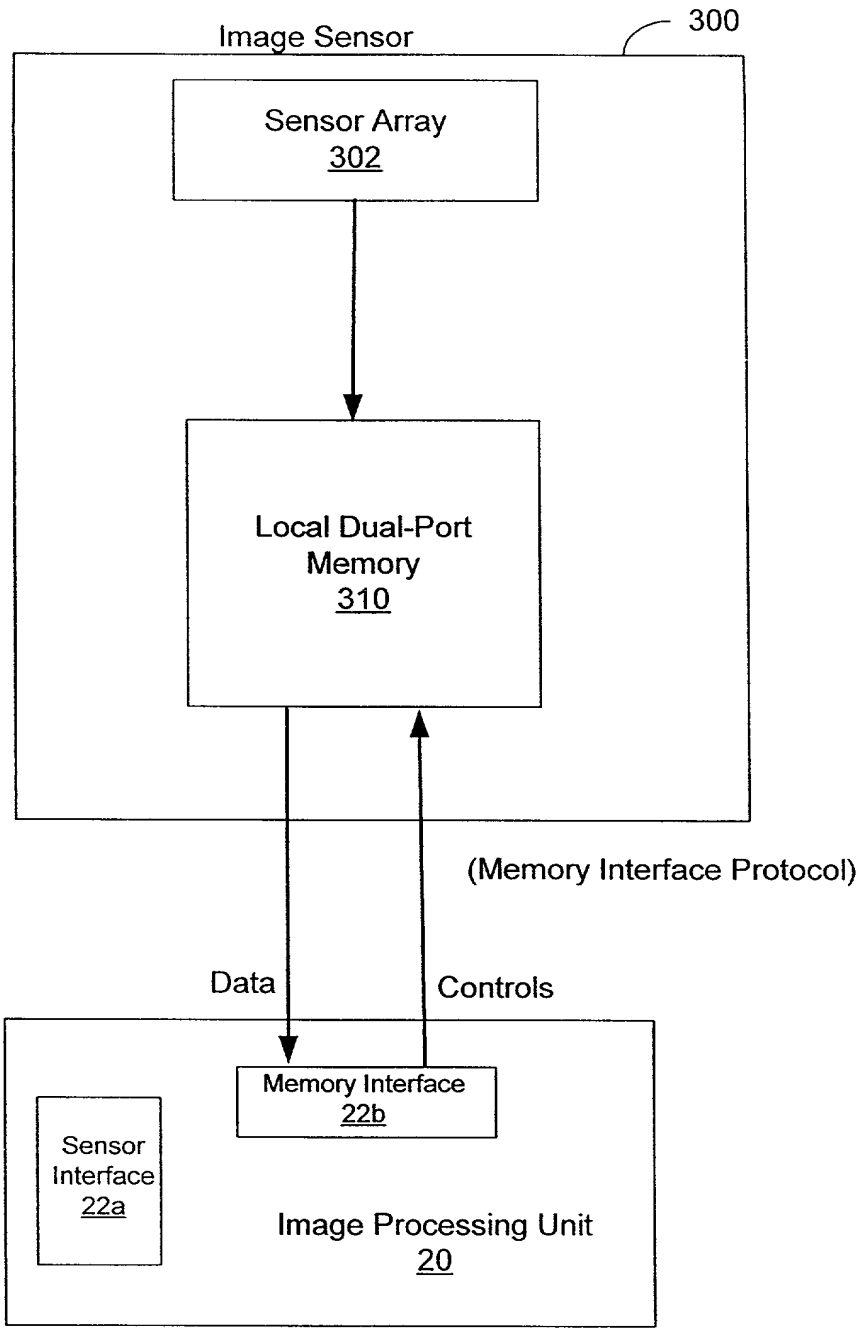
Image Sensor
300
Sensor Array
302
Local Dual-Port
Memory
310
(Memory Interface Protocol)
Data
Controls
Memory Interface
22b
Sensor
Interface
22a
Image Processing Unit
20

Figure 4

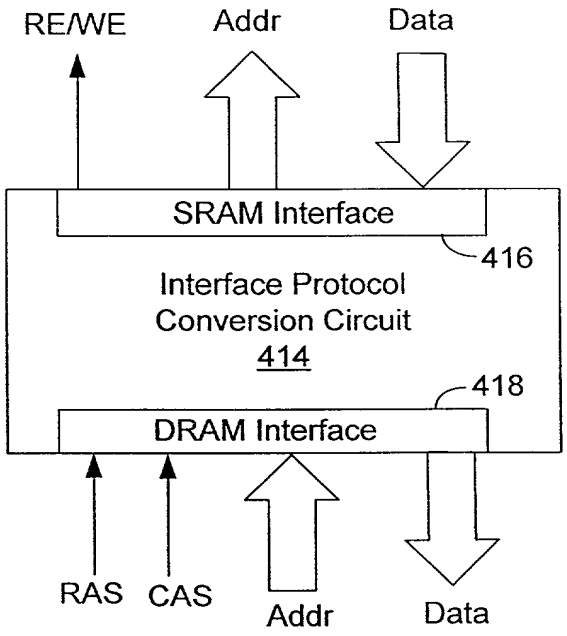
RE/WE
Addr
Data
SRAM Interface
416
Interface Protocol
Conversion Circuit
414
418
DRAM Interface
RAS
CAS
Addr
Data

Figure 5